Hazardous Material (HAZMAT) in the Dental Office

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HAZMAT in Comprehensive Dentistry

- Our HAZMAT inventory includes 343 products!

  -ranges from “absorbent paper points” to

  “zinc phosphate cement”

Hazardous Material

- any material that, because of its quantity, concentration, physical, or chemical characteristics, may pose a hazard to human health or the environment when treated, handled, used, packaged, stored, transported or disposed.

What is our guide for handling HAZMAT?

- Recommendations
- Regulations

Recommendations

- Made by individuals or groups that have no authority for enforcement
- Centers for Disease Control (CDC)
  -Most infection control procedures practiced in dentistry
  -No authority to make law
  -The basis for most local, state, and federal laws

Recommendations

- American Dental Association (ADA)
- Organization for Safety and Asepsis Procedures Research Foundation (OSAP)
- Association for the Advancement of Medical Instrumentation (AAMI)
- National Institute for Occupational Safety and Health (NIOSH)

Regulations

- Made by groups that have the authority to enforce
- State/local

  -Medical waste management

  -Instrument sterilization

  -Spore testing

Regulations

- Federal

  -Environmental Protection Agency (EPA)

  *management of hazardous solid waste

Regulations

- Federal

  -Food and Drug Administration

  *regulates the manufacturing and labeling of medical devices

  *Does not control actual use

Regulations

- Federal

  -Occupational Safety and Health Administration (OSHA)

  *to protect the workers of America from physical, chemical, and/or infectious hazards in the workplace

OSHA

- Hazard Communication Standard (HCS)

  -directs manufactures to research products, based on scientific principles for:

  *health hazards

  *physical hazards

  *prepare the Material Safety Data Sheet (MSDS)

  *communicate this information to workers

MSDS

- Material Safety Data Sheet

*must be kept on site

*personnel must know location

-14 sections

1. Chemical identification/distributor information
2. Description
3. Hazards identification
4. First aid measures
5. Fire fighting measures

MSDS

6. Accidental release measures
7. Handling and storage
8. Exposure controls/personal protective equipment
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information

MSDS

12. Ecological information
13. Disposal considerations
14. Transport information

-MSDS must be kept on site

-Personnel must know the location

Labeling HAZMAT NFPA Hazard Diamond

- National Fire Protection Agency

-a color coded array of four numbers or letters

-one format for labeling HAZMAT

Health Hazard

0: no hazard under fire conditions
beyond ordinary combustible peanut oil
1: irritation on exposure turpentine
2: temporary incapacitation or
residual injury on intense exposure ammonia gas
3: serious temporary or residual
injury on short exposure chlorine gas
4: death or major residual injury
on very short exposure hydrogen cyanide

Flammability

0: material will not burn water

1: material must be preheated
before ignition can occur corn oil

2: moderate heating or exposure
to high ambient temperature diesel fuel

3: liquids and solids can be ignited
under most ambient temperatures gasoline

4: complete vaporization at normal
temperature and atmospheric pressure propane gas

Reactivity

0: normally stable; not reactive with water — liquid nitrogen

1: can become unstable at elevated temperatures — phosphorus

2: violent chemical change at elevated temperatures; reacts violently with water; forms explosive mix with water — calcium metal

3: capable of detonation-requires strong initiating source — fluorine gas

4: capable of detonation at normal temperatures and pressures — trinitrotoluene (TNT)

Special precautions/protective gear required

Unusual reactivity with water- don’t put water on it
magnesium metal

OX: oxidizing properties
ammonium nitrate

ACID

ALK: material is a base

COR: material is corrosive

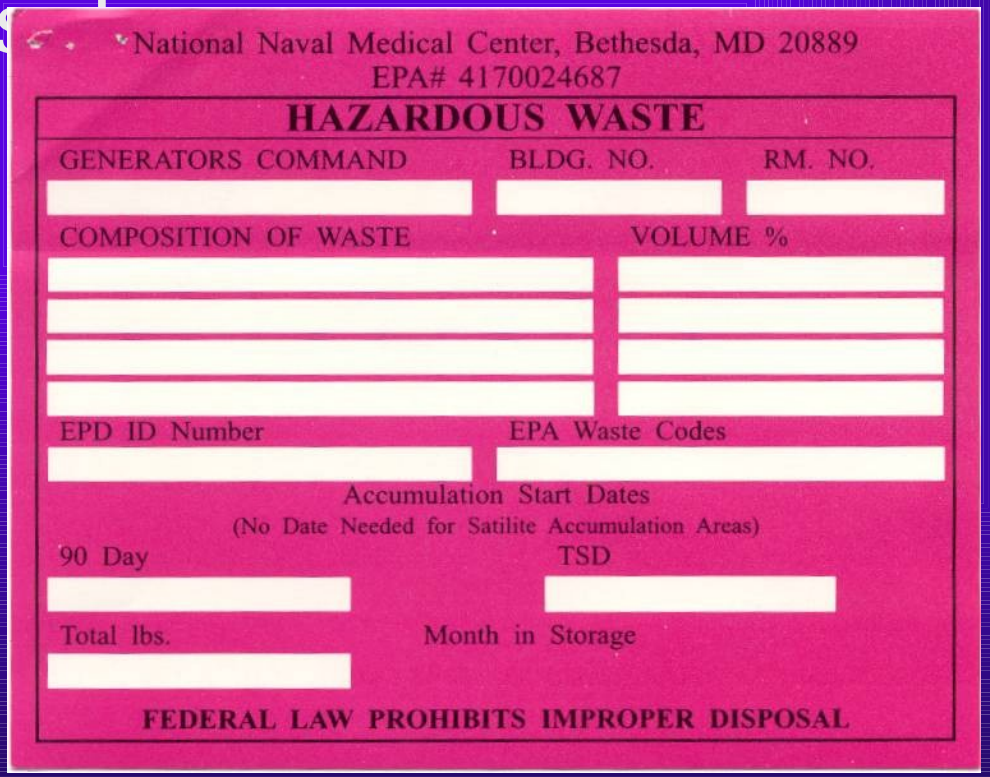
Disposal of HAZMAT

- notify department HAZMAT Coordinator
- throw nothing into the trash can
- make sure containers are in good condition

- The department coordinator will…..

Disposal of HAZMAT

- affix a pink hazardous waste label to all containers intended for dispos


National Naval Medical Center, Bethesda, MD 20889
EPA# 4170024687

HAZARDOUS WASTE

GENERATORS COMMAND | BLDG. NO. | RM. NO.

COMPOSITION OF WASTE | VOLUME %

EPD ID Number | EPA Waste Codes

Accumulation Start Dates
(No Date Needed for Satilite Accumulation Areas)

90 Day | TSD

Total lbs. | Month in Storage

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

Disposal of HAZMAT

- fill out a separate internal hazardous waste manifest for each item and attach a proper MSDS
- bring the paperwork to HM1 Powell; he will arrange for pick-up

Storage of HAZMAT

- may be stored for 90 days beginning with placement of the HAZMAT into a storage container
- store HAZMAT in a container compatible with the contents
- separate containers of incompatible wastes (check MSDS Sections 7 and 10)
- inspect storage area for leaks and spills on a weekly basis

Points of contact

- MSDS location: DT2 Osei's office
- Department HAZMAT Coordinator:

  DN Pendley
- Command HAZMAT Officer

  LTjg McPhearson

  301 295-4031

?????? QUESTIONS ??????